

3.12 Multiple-Angle Identities- odd answers

1. 1

3. $-\frac{1}{2}$

5. $\frac{\sqrt{2-\sqrt{3}}}{2}$

7. $\frac{\sqrt{2-\sqrt{3}}}{2}$

9. positive

11. negative

13. $\sin 26^\circ$

15. $\frac{\sqrt{3}}{6}$

17. work is the answer

19. work is the answer

21. $\sin \alpha = \frac{\sqrt{5}}{5}$ $\csc \alpha = \sqrt{5}$
 $\cos \alpha = \frac{2\sqrt{5}}{5}$ $\sec \alpha = \frac{\sqrt{5}}{2}$
 $\tan \alpha = \frac{1}{2}$ $\cot \alpha = 2$

23. $-\frac{24}{25}$

25. $\cos \beta = -\frac{\sqrt{5}}{3}$